

ADMINISTRATIVE RECORD INDEX

for the

REDWING CARRIERS INC/SARALAND NPL Site

1.0 PRE-REMEDIAL

1.8 Preliminary Assessment Documents

- Roll #1*
Vol. 1
FRAME # 0001 1. "Potential Hazardous Waste Site - Preliminary Assessment" Form, EPA Region IV (March 12, 1985).

1.9 Site Inspection Documents

- 0008* 1. "Potential Hazardous Waste Site - Site Inspection Report" Form, EPA Region IV (May 27, 1987).

2.0 REMOVAL RESPONSE

2.2 Sampling and Analysis Data

The Sampling and Analysis Data for the Redwing Carriers/Saraland Site may be reviewed, by appointment only, at EPA Region IV, Atlanta, Georgia.

3.0 REMEDIAL INVESTIGATION (RI)

3.1 Correspondence

- 0029* 1. Letter from Michael W. Orrick, WCM Group, Inc., to Clarence Erdman, Mobile County Health Department (August 27, 1990). Concerning request for information regarding the Redwing Carriers, Inc./Saraland Site in Saraland, Alabama.
- 0032* 2. Letter from Michael W. Orrick, WCM Group, Inc., to Gerald Beard, United States Department of Housing and Urban Development-Birmingham (August 27, 1990). Concerning request for information regarding the Redwing Carriers, Inc./Saraland Site in Saraland, Alabama.

3.0 REMEDIAL INVESTIGATION (RI)

3.1 Correspondence (cont'd.)

- 0034- 3. Letter from Michael W. Orrick, WCM Group, Inc., to Kenneth A. Lucas, EPA Region IV (March 11, 1991). Concerning determination of candidate technologies and the need for treatability studies for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 0036- 4. Memorandum from Pat Stamp, EPA Region IV, to Kenneth A. Lucas, EPA Region IV (June 5, 1991). Concerning review of the RI/FS Preliminary Site Characterization and proposed Field Sampling Plan for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 0038- 5. Memorandum from Roger E. Carlton, EPA Region IV Environmental Services Division, Athens, Georgia, to Kenneth A. Lucas, EPA Region IV (June 14, 1991). Concerning review of the RI/FS Preliminary Site Characterization Summary - Phase I Sampling and the proposed Field Sampling Plan - Phase II for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 0042- 6. Letter from W. Jan Hunnicutt, B&V Waste Science & Technology, Corporation, to Kenneth A. Lucas, EPA Region IV (June 18, 1991). Concerning transmittal of 5 1/4 inch disk containing technical review comments on the RI/FS Preliminary Site Characterization Summary - Phase I Sampling for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 0053- 7. Memorandum from Glenn Adams, EPA Region IV, to Kenneth A. Lucas, EPA Region IV (June 19, 1991). Concerning review of the RI/FS Preliminary Site Characterization Summary - Phase II Sampling Plan for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 0056- 8. Memorandum from Gary Bennett, EPA Region IV Environmental Services Division, Athens, Georgia, to Kenneth A. Lucas, EPA Region IV (June 24, 1991). Concerning evaluation of split sample and QC data from the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.

3.0 REMEDIAL INVESTIGATION (RI)

3.1 Correspondence (cont'd.)

- 0059 9. Letter from Kenneth A. Lucas, EPA Region IV, to Michael W. Orrick, WCM Group, Inc. (June 26, 1991). Concerning results of the Remedial Investigation (RI) Phase I Site Characterization Summary (PSCE) Report and the Phase II Field Sampling and Analysis Plan (FSAP) for the Redwing Carriers/ Saraland Apartments NPL Site in Saraland, Alabama.
- 0080 10. Memorandum from Winston A. Smith, EPA Region IV, to Donald J. Guinyard, EPA Region IV (July 9, 1991). Concerning review of the RI/FS Phase II Preliminary Site Characterization Summary for the Redwing Carriers/ Saraland Apartments NPL Site in Saraland, Alabama.
- 0084- 11. Letter from Michael W. Orrick, WCM Group, Inc., to Kenneth A. Lucas, EPA Region IV (July 12, 1991). Concerning the Remedial Investigation (RI) Phase I Site Characterization Summary (PSCE) Report and the Phase II Field Sampling and Analysis Plan (FSAP) for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama and EPA Comments dated June 26, 1991.
- 0089- 12. Letter from Michael W. Orrick, WCM Group, Inc., to Kenneth A. Lucas, EPA Region IV (July 25, 1991). Concerning the Remedial Investigation (RI) Phase I Site Characterization Summary (PSCE) Report and the Phase II Field Sampling and Analysis Plan (FSAP) for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 0114- 13. Letter from Joe H. Brown, WCM Group, Inc., to Kenneth A. Lucas, EPA Region IV (August 6, 1991). Concerning progress of the Well Inventory conducted near the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 0122- 14. Letter from Kenneth A. Lucas, EPA Region IV, to Michael W. Orrick, WCM Group, Inc. (August 21, 1991). Response to Joe Brown's letter of August 2, 1991 regarding the Well Inventory Progress.

3.0 REMEDIAL INVESTIGATION (RI)

3.1 Correspondence (cont'd.)

- 0125-15. Letter from Kenneth A. Lucas, EPA Region IV, to Michael W. Orrick, WCM Group, Inc. (August 22, 1991). Concerning the Remedial Investigation/Feasibility Study (RI/FS) and Treatability Studies Work Plan for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 0130-16. Letter from Kenneth A. Lucas, EPA Region IV, to Michael W. Orrick, WCM Group, Inc. (August 27, 1991). Concerning the Phase II Sampling Plan for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 0134-17. Memorandum from Fred Sloan, EPA Region IV Environmental Services Division, Athens, Georgia, to Kenneth A. Lucas, EPA Region IV (September 4, 1991). Concerning review of the the Remedial Investigation (RI) Phase I Site Characterization Summary (PSCE) Report and the Phase II Field Sampling and Analysis Plan (FSAP) for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 0137-18. Letter from Kenneth A. Lucas, EPA Region IV, to Michael W. Orrick, WCM Group, Inc. (September 10, 1991). Concerning technical meeting on the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 0142-19. Memorandum from Winston A. Smith, EPA Region IV, to Donald J. Guinyard, EPA Region IV (September 13, 1991). Concerning review of the the Remedial Investigation (RI) Phase I Site Characterization Summary (PSCE) Report and the Phase II Field Sampling and Analysis Plan (FSAP) for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 0145-20. "Conference Memorandum," B and V Waste Science and Technology Corp. for EPA Region IV (October 22, 1991). Concerning an October 8, 1991, meeting attended by representatives of EPA Region IV and Redwing Carrier. Also attached are lists of meeting attendees.

3.2 Sampling and Analysis Data

The Sampling and Analysis Data for the Redwing Carriers, Inc./Saraland Site may be reviewed, by appointment only, at EPA Region IV, Atlanta, Georgia.

3.2 Sampling and Analysis Data (cont'd.)

- 0153-** 1. Letter from Michael W. Orrick, WCM Group, Inc., to Elaine G. Levine, EPA Region IV (June 19, 1990). Concerning EPA supporting sampling data for the proposed Administrative Order for the Redwing Carriers, Inc./Saraland Site in Saraland, Alabama.
- 0155-** 2. "Redwing Carriers, Inc.-Saraland Apartments Site, Alabama - Remedial Investigation/Feasibility Study - Sampling and Analysis Plan," WCM Group, Inc. (November 1990).
- 0164-** 3. "Redwing Carriers, Inc.-Saraland Apartments Site, Alabama - Remedial Investigation/Feasibility Study - Field Sampling Plan," WCM Group, Inc. (November 1990).
- 0246-** 4. "Redwing Carriers, Inc. - Saraland Apartments Site, Alabama - Remedial Investigation/Feasibility Study - Preliminary Site Characterization Summary - Phase I - Sampling" Volume 1, WCM Group, Inc. (July 1991).
- 0521-** 5. "Redwing Carriers, Inc. - Saraland Apartments Site, Alabama - Remedial Investigation/Feasibility Study - Preliminary Site Characterization Summary - Phase I - Sampling" Volume 2, WCM Group, Inc. (July 1991).
- 0732** 6. "Redwing Carriers, Inc. - Saraland Apartments Site, Alabama - Remedial Investigation/Feasibility Study - Field Sampling Plan - Phase II," WCM Group, Inc. (August 1991).
- 0784-** 7. Memorandum from Fred Sloan, EPA Region IV Environmental Services Division, to Ken Lucas, EPA Region IV (August 29, 1991). Concerning comments to the Revised Preliminary Site Characterization Summary (PSCS) and Phase II Sampling and Analysis Plan.
- 0789** 8. Letter from W.T. Harbour, Jr., United Redwing, to Ken Lucas, EPA Region IV (September 12, 1991). Transmitting enclosed copies of weekly inspection checklists for June, July, and August, 1991.
- 0848** 9. Memorandum from Kay Wischkaemper, EPA Region IV, to Ken Lucas, EPA Region IV (September 19, 1991). Concerning the second submittal of the Revised Preliminary Site Characterization Summary (PSCS) and Phase II Sampling and Analysis Plan.

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3.2 Sampling and Analysis Data (cont'd.)

- 0852- 10. Fascimile from Joe Brown, WCM Group, Inc., to Ken Lucas, EPA Region IV, transmitting pages from field log books, containing information on monitoring well sampling. (September 30, 1991).
- 0862- 11. Letter from Jan Hunnicutt, B & V Waste Science and Technology Corp., to Ken Lucas, EPA Region IV (October 7, 1991). Concerning Phase II split samples collected at the Redwing Carrier Site between September 3 and September 26, 1991.
- 0865- 12. "Redwing Carrier, Inc., Saraland Apartments Site, Remedial Investigation/Feasibility Study, Preliminary Site Characterization Summary, Phase II, DRAFT," The WCM Group, Inc. (November 1991).
- 1100- 13. Letter from W.T. Harbour, Jr., United Redwing, to Ken Lucas, EPA Region IV (December 2, 1991). Transmitting enclosed copies of weekly inspection checklists for September, October and November 1991.
- 1170- 14. Memorandum from Ken Lucas, EPA Region IV, to Wade Knight, EPA Region IV (December 6, 1991). Concerning review of Phase II split sample data.
- 1172- 15. Memorandum from Ken Lucas, EPA Region IV, to Bill Bokey, EPA Region IV (December 10, 1991). Concerning Phase IIA Field Sampling Plan.
- 1174- 16. Memorandum from Fred Sloan, EPA Region IV, to Ken Lucas, EPA Region IV. (December 12, 1991). Concerning comments on the Preliminary Site Characterization Study.
- 1177- 17. Groundwater and soil samples report compiled by SBP Technologies, Inc. for the WCM Group, Inc. (February 28, 1992).
- 1182- 18. Letter from W.T. Harbour, Jr., United Redwing, to Ken Lucas, EPA Region IV (September 14, 1992). Transmitting enclosed copies of weekly inspection checklists for June, July and August 1992.

3.4 Work Plans and Progress Reports

- 1239- 1. Letter from Michael W. Orrick, WCM Group, Inc., to Kenneth A. Lucas, EPA Region IV (July 16, 1990). Concerning monthly report for June 1990 regarding activity at the Redwing Carriers, Inc./Saraland Site in Saraland, Alabama.

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3.4 Work Plans and Progress Reports (cont'd.)

- 1242- 2. Letter from Michael W. Orrick, WCM Group, Inc., to Kenneth A. Lucas, EPA Region IV (August 7, 1990). Concerning monthly report for July 1990 regarding activity at the Redwing Carriers, Inc./Saraland Site in Saraland, Alabama.
- 1245- 3. Letter from Michael W. Orrick, WCM Group, Inc., to Kenneth A. Lucas, EPA Region IV (September 6, 1990). Concerning request for EPA Region IV comments on deliverables required by the Consent Order for the Redwing Carriers, Inc./Saraland Site in Saraland, Alabama.
- 1248- 4. Memorandum from Kenneth A. Lucas, EPA Region IV, to Addressees, EPA Region IV (September 7, 1990). Concerning request for peer review of the Remedial Investigation/Feasibility Study Work Plan for the Redwing Carriers, Inc./Saraland Site in Saraland, Alabama.
- 1250- 5. Letter from Michael W. Orrick, WCM Group, Inc., to Kenneth A. Lucas, EPA Region IV (September 11, 1990). Concerning monthly report for August 1990 regarding activity at the Redwing Carriers, Inc./Saraland Site in Saraland, Alabama.
- 1253- 6. Memorandum from John A. Lindsay, National Oceanic and Atmospheric Administration, to Kenneth A. Lucas, EPA Region IV (September 24, 1990). Concerning review of the draft Remedial Investigation/Feasibility Study Work Plan for the Redwing Carriers, Inc./Saraland Site in Saraland, Alabama.
- 1256- 7. Letter from W. Jan Hunnicut, B & V Waste Science and Technology Corp., to Kenneth A. Lucas, EPA Region IV (September 27, 1990). Concerning transmittal of the Technical Review Comments Report for the Redwing Carriers, Inc./Saraland Site in Saraland, Alabama.
- 1258- 8. "Technical Review and Comments Report for Remedial Investigation/Feasibility Study Work Plan, Sampling and Analysis Plan, and Health and Safety Plan - Redwing Carriers Site, Saraland, Alabama," Dynamac Corporation (September 27, 1990).

3.4 Work Plans and Progress Reports (cont'd.)

- 1280- 9. Memorandum from Chuck Pietrosewicz, Department of Health and Human Services (ATSDR), to Kenneth A. Lucas, EPA Region IV (October 1, 1990). Concerning review of the September 1990 draft Remedial Investigation/Feasibility Study Work Plan and related plans for the Redwing Carriers, Inc./Saraland Site in Saraland, Alabama.
- 1284- 10. Letter from Michael W. Orrick, WCM Group, Inc., to Kenneth A. Lucas, EPA Region IV (October 15, 1990). Concerning monthly report for September 1990 regarding activity at the Redwing Carriers, Inc./Saraland Site in Saraland, Alabama.
- 1287- 11. Letter from Michael W. Orrick, WCM Group, Inc. and Kenneth A. Lucas, EPA Region IV (October 19, 1990). Concerning correction to the monthly report for September 1990 regarding activity at the Redwing Carriers, Inc./Saraland Site in Saraland, Alabama.
- 1290- 12. Letter from Larry E. Goldman, U. S. Department of the Interior, to Kenneth A. Lucas, EPA Region IV (October 24, 1990). Concerning comments regarding the Remedial Investigation/Feasibility Study Work Plan for the Redwing Carriers, Inc./Saraland Site in Saraland, Alabama.
- 1293 13. "EPA Review Comments - Draft RI/FS Work Plan - Redwing Carriers - Saraland Apartments Site - Potential Impact on Natural Resources," EPA Region IV (October 29, 1990).
- 1339- 14. "Redwing Carriers, Inc. - Saraland Apartments Site, Alabama - Remedial Investigation/Feasibility Study Work Plan," WCM Group, Inc. (November 1990).
- 1492- 15. Letter from Michael W. Orrick, WCM Group, Inc., to Kenneth A. Lucas, EPA Region IV (November 12, 1990). Concerning monthly report for October 1990 regarding activity at the Redwing Carriers, Inc./Saraland Site in Saraland, Alabama.
- 1495- 16. Letter from Michael W. Orrick, WCM Group, Inc., to Kenneth A. Lucas, EPA Region IV (November 21, 1990). Concerning transmittal of the Final Work Plan for the Redwing Carriers, Inc./Saraland Site in Saraland, Alabama.

3.4 Work Plans and Progress Reports (cont'd.)

- 1498- 17. Letter from Ernest A. Mancini, Alabama Geological Survey, to Kenneth A. Lucas, EPA Region IV (December 7, 1990). Concerning review of the Remedial Investigation/Feasibility Study Work Plan for the Redwing Carriers, Inc./Saraland Site in Saraland, Alabama.
- 1500 18. Letter from Michael W. Orrick, WCM Group, Inc., to Kenneth A. Lucas, EPA Region IV (December 11, 1990). Concerning monthly report for November 1990 regarding activity at the Redwing Carriers, Inc./Saraland Site in Saraland, Alabama.
- 1503- 19. Letter from Michael W. Orrick, WCM Group, Inc., to Kenneth A. Lucas, EPA Region IV (January 10, 1991). Concerning monthly activity report for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
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DUPE 20. Letter from Michael W. Orrick, WCM Group, Inc., to Kenneth A. Lucas, EPA Region IV (January 10, 1991). Concerning monthly activity report for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 1506 - 21. Letter from Michael W. Orrick, WCM Group, Inc., to Kenneth A. Lucas, EPA Region IV (February 13, 1991). Concerning monthly activity report for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 1510 - 22. Letter from Michael W. Orrick, WCM Group, Inc., to Kenneth A. Lucas, EPA Region IV (March 15, 1991). Concerning monthly activity report for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 1515- 23. Letter from Michael W. Orrick, WCM Group, Inc., to Kenneth A. Lucas, EPA Region IV (April 15, 1991). Concerning monthly activity report for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 1518- 24. "Investigation Report - Redwing Carrier - Saraland, Alabama," EPA Region IV (May 1991). Includes Appendices: A) Analytical Data B) Photographs.

3.4 Work Plans and Progress Reports (cont'd.)

- 1582- 25. Memorandum from Steve Hall, EPA Region IV Environmental Services Division, Athens, Georgia, to Kenneth A. Lucas, EPA Region IV (May 3, 1991). Concerning transmittal of Study Plan for the Sampling Investigation at the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 1587- 26. Letter from Michael W. Orrick, WCM Group, Inc., to Kenneth A. Lucas, EPA Region IV (May 13, 1991). Concerning monthly activity report for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 1590- 27. Letter from Michael W. Orrick, WCM Group, Inc., to Kenneth A. Lucas, EPA Region IV (June 14, 1991). Concerning monthly activity report for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 1593- 28. Letter from Michael W. Orrick, WCM Group, Inc., to Kenneth A. Lucas, EPA Region IV (July 11, 1991). Concerning monthly activity report for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 1596- 29. Letter from Michael W. Orrick, WCM Group, Inc., to Kenneth A. Lucas, EPA Region IV (August 15, 1991). Concerning monthly activity report for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 1602- 30. Field Book for the Redwing Carrier Site, kept by Carter Helm, B & V Waste Science and Technology Corp. from September 3-6, 1991 (September 6, 1991).
- 1618- 31. Fax from Carter Helm, B & V Waste Science and Technology Corp., to Ken Lucas, EPA Region IV (September 9, 1991). Weekly Field Activity Report September 3 - 6, 1991.
- 1638- 32. Letter from Michael W. Orrick, WCM Group, Inc., to Kenneth A. Lucas, EPA Region IV (September 12, 1991). Concerning the treatability studies work plan for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 1623- 33. Field Book for the Redwing Carrier Site, kept by Carter Helm, B & V Waste Science and Technology Corp. from September 9 - 12, 1991 (September 15, 1991).

3.4 Work Plans and Progress Reports (cont'd.)

- 1640 34. Letter from Michael W. Orrick, WCM Group, Inc., to Ken Lucas, EPA Region IV (September 16, 1991). The monthly EPA report for August 1991.
- 1643- 35. Fax from Carter Helm, B & V Waste Science and Technology Corp., to Ken Lucas, EPA Region IV (September 16, 1991). Weekly Field Activity Report September 9 - 16, 1991.
- 1648 36. Memorandum from Fred Sloan, EPA Region IV Environmental Services Division, to Ken Lucas, EPA Region IV (September 20, 1991). A field overview of the Redwing Carrier Site.
- 1651 37. Fax from Carter Helm, B & V Waste Science and Technology Corp., to Ken Lucas, EPA Region IV (September 25, 1991). Weekly Field Activity Report September 23 - 26, 1991.
- 1655 38. EPA Region IV Environmental Services Division Overview Checklist for the Redwing Carrier Site covering the period from September 3 - 26, 1991 (September 26, 1991).
- 1673- 39. Letter from Michael W. Orrick, to Ken Lucas, EPA Region IV (October 14, 1991). Concerning the monthly report for September 1991.
- 1677- 40. Letter from Michael W. Orrick, WCM Group, Inc., to Ken Lucas, EPA Region IV (October 24, 1991). Concerning the October 8 - 9, 1991, meeting between EPA Region IV and Redwing Carriers, Inc. to discuss the Remedial Investigation/Feasibility (RI/FS) Study Schedule.
- 1681- 41. Letter from Ken Lucas, EPA Region IV, to Michael W. Orrick, WCM Group, Inc (October 30, 1991). Concerning modification of the schedule for the Remedial Investigation/Feasibility Study.
- 1684- 42. Letter from Michael W. Orrick, to Ken Lucas, EPA Region IV. (November 15, 1991). The monthly report for October 1991.
- 1687 43. Letter from Michael W. Orrick, to Ken Lucas, EPA Region IV (December 16, 1991). The monthly report for November 1991.

3.4 Work Plans and Progress Reports (cont'd.)

- 1690- 44. "Redwing Carriers, Inc., Saraland Apartments Site, Alabama, Remedial Investigation/Feasibility Study, Revised Field Sampling Plan Phase IIA," WCM Group, Inc. (January 1992).
- 1738- 45. Letter from Michael W. Orrick, to Ken Lucas, EPA Region IV (April 15, 1992). Concerning the monthly report for March 1992.
- 1745- 46. Letter from Michael W. Orrick, to Ken Lucas, EPA Region IV (May 15, 1992). Concerning the monthly report for April 1992.
- 1749 47. Letter from Michael W. Orrick, WCM Group, Inc., to Ken Lucas, EPA Region IV (June 3, 1992). Concerning Remedial Investigation/Feasibility Study schedules established at the June 2, 1992, meeting.
- 1753- 48. Letter from Ken Lucas, EPA Region IV, to Michael W. Orrick, WCM Group, Inc. (June 9, 1992). Concerning modifications to the Work Plan schedule for the Redwing Carrier Site.
- 1756- 49. Fax from Michael W. Orrick, WCM Group, Inc., to Ken Lucas, EPA Region IV (June 16, 1992). Transmitting the monthly activity report for May 1992.
- 1760- 50. Letter from Michael Orrick, WCM Group, Inc., to Ken Lucas, EPA Region IV, transmitting the Monthly Report for August, 1992. (September 15, 1992).
- 1763 51. Fax from Michael W. Orrick, WCM Group, Inc., to Ken Lucas, EPA Region IV (October 15, 1992). Transmitting the monthly activity report for September, 1992.

3.7 Applicable or Relevant and Appropriate Requirements (ARARS)

- 1773 1. Letter from Michael W. Orrick, WCM Group, Inc., to Kenneth A. Lucas, EPA Region IV (August 21, 1990). Concerning preliminary identification of Applicable or Relevant and Appropriate Requirements (ARARS).

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3.8 Interim Deliverables (cont'd.)

- 1781- 1. Letter from Ernest A. Mancini, Alabama Geological Survey, to Kenneth A. Lucas, EPA Region IV (March 21, 1990). Concerning State of Alabama review of the Technical Memorandum for the determination of candidate technologies and the need for treatability studies for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 1783- 2. "Redwing Carriers, Inc.-Saraland Apartments Site, Alabama - Remedial Investigation/Feasibility Study - Quality Assurance Project Plan," WCM Group, Inc. (November 1990).
- 1845- 3. "Redwing Carriers, Inc.-Saraland Apartments Site, Alabama - Remedial Investigation/Feasibility Study - Health and Safety Plan," WCM Group, Inc. (November 1990).
- 1881- 4. "Redwing Carrier, Inc. -Saraland Apartments Site, Alabama - Remedial Investigation/Feasibility Study, Emergency Response Plan, WCM Group, Inc. (November 1990).
- 1918- 5. "Redwing Carriers, Inc. - Saraland Apartments Site, Alabama - Remedial Investigation/ Feasibility Study - Technical Memorandum - Determination of Candidate Technologies and the Need for Treatability Studies," WCM Group, Inc. (March 1991).
- 1965- 6. Memorandum from Pat Stamp, EPA Region IV, to Kenneth A. Lucas, EPA Region IV (March 21, 1991). Concerning review of the Technical Memorandum for the determination of candidate technologies and the need for treatability studies for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 1967- 7. Memorandum from Kay Wischkaemper, EPA Region IV, to Kenneth A. Lucas, EPA Region IV (April 2, 1991). Concerning comments on the Technical Memorandum for the determination of candidate technologies and the need for treatability studies for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.

3.8 Interim Deliverables (cont'd.)

- 1970-8. Memorandum from Roger E. Carlton, EPA Region IV Environmental Services Division, Athens, Georgia, to Kenneth A. Lucas, EPA Region IV (April 2, 1991). Concerning review of the Technical Memorandum for the determination of candidate technologies and the need for treatability studies for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 1972-9. Memorandum from Winston A. Smith, EPA Region IV, to Donald J. Guinyard, EPA Region IV (April 9, 1991). Concerning review of the Technical Memorandum for the determination of candidate technologies and the need for treatability studies for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 1974-10. Letter from Kenneth A. Lucas, EPA Region IV, to Michael W. Orrick, WCM Group, Inc. (April 11, 1991). Concerning transmittal of EPA's comments on the Technical Memorandum for the determination of candidate technologies and the need for treatability studies for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 1979-11. Memorandum from Joyce M. Perdek, EPA Office of Research and Development, Cincinnati, to Kenneth A. Lucas, EPA Region IV (April 15, 1991). Concerning review on in situ soil flushing for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 1987-12. Memorandum from Jonathan G. Herrman, EPA Office of Research and Development, Cincinnati, to Joan Maddox, EPA Region IV (April 23, 1991). Concerning review of the Work Plan and Technical Memorandum for the determination of candidate technologies and the need for treatability studies for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 1992-13. Memorandum from Joyce M. Perdek, EPA Office of Research and Development, Cincinnati, to Joyce Mattox, EPA Region IV (April 24, 1991). Concerning evaluation of the potential use of In Situ Steam Stripping for remediation at the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.

3.8 Interim Deliverables (cont'd.)

1996- 14. Letter from Kenneth A. Lucas, EPA Region IV, to Michael W. Orrick, WCM Group, Inc. (May 3, 1991). Concerning review of scoping meeting held on April 25, 1991 for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.

15. Cross-Reference: Letter from Kenneth A. Lucas, EPA Region IV, to Joe Downy, Alabama Department of Environmental Management (May 30, 1991). Concerning State of Alabama's review of the Preliminary Site Characterization Summary and the Phase II Sampling Plan. [Filed and cited as entry number 1 in 9.1 STATE COORDINATION - Correspondence]

2003 16. Memorandum from Kenneth A. Lucas, EPA Region IV, to Pat Stamp, EPA Region IV (August 6, 1991). Concerning review of the revised Preliminary Site Characterization Summary and the Phase II Field Sampling Plan for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.

2005 17. Letter from Michael W. Orrick, WCM Group, Inc., to Kenneth A. Lucas, EPA Region IV (August 9, 1991). Concerning confirmation of September 15, 1991 as the deadline for the submission of the Technical Memorandum for the Determination of Candidate Technologies and the need for treatability studies for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.

2007 18. Letter from Michael W. Orrick, WCM Group, Inc., to Kenneth A. Lucas, EPA Region IV (August 13, 1991). Concerning transmittal of the Technical Memorandum presenting the proposed Remedial Action objectives for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.

2010 19. Memorandum from Winston A. Smith, EPA Region IV, to Donald J. Guinyard, EPA Region IV (September 13, 1991). Concerning review of the Preliminary Site Characterization Summary and Phase II Sampling Plan for the Redwing Carriers Site.

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3.10 Remedial Investigation (RI) Reports

0001- 1. Memorandum from Hubert Wieland, B & V Waste Science and Technology Corp., to Jan Hunnicutt, B & V Waste Science and Technology Corp. (May 3, 1991). Concerning comments on the Remedial Investigation presentation for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.

3.10 Remedial Investigation (RI) Reports (cont'd.)

- 0004- 2. Memorandum from Robert E. Safay, Department of Health and Human Services, to Kenneth A. Lucas, EPA Region IV (June 13, 1991). Concerning review of the Remedial Investigation/Feasibility Study for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 0006- 3. Memorandum from Kay Wischkaemper, EPA Region IV, to Kenneth A. Lucas, EPA Region IV (July 2, 1991). Concerning preliminary comments on the Remedial Investigation (RI) results of the Phase I Report and the Phase II Sampling and Analysis Plan for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 0012- 4. Memorandum from Winston A. Smith, EPA Region IV, to Donald J. Guinyard, EPA Region IV (March 31, 1992). Concerning review of the Remedial Investigation/Feasibility Study Draft Remedial Investigation Report for the Redwing Carriers Site.
- 0015- 5. Letter from Ken Lucas, EPA Region IV, to Michael W. Orrick, WCM Group, Inc. (April 7, 1992). Transmitting EPAs comments on the Draft Remedial Investigation Report for the Redwing Carriers Site.
- 0034- 6. Letter from Michael W. Orrick, WCM Group, Inc., to Ken Lucas, EPA Region IV (April 24, 1992). Concerning EPA's comments on the Draft Remedial Investigation Report.
- 0036- 7. Letter from Michael W. Orrick, WCM Group, Inc., to Ken Lucas, EPA Region IV (May 8, 1992). Submitting the Final Remedial Investigation Report for the Redwing Carriers Site.
- 0038- 8. Letter from Ken Lucas, EPA Region IV, to Michael W. Orrick, WCM Group, Inc. (May 21, 1992). Concerning scheduling issues discussed at a May 19, 1992, meeting.
- 0040- 9. Letter from Michael W. Orrick, WCM Group, Inc., to Ken Lucas, EPA Region IV (May 27, 1992). Submitting a written discussion on changes to the revised Remedial Investigation Report.
- 0050- 10. Fax from Ken Lucas, EPA Region IV, to Michael W. Orrick, WCM Group, Inc. (June 4, 1992). Transmitting Technical Review Comments on the Draft Remedial Investigation Report.

3.10 Remedial Investigation (RI) Reports (cont'd.)

- 0061- 11. Letter from Waynon Johnson, National Oceanographic and Atmospheric Administration, to Ken Lucas, EPA Region IV (June 9, 1992). Concerning review of the Remedial Investigation/Feasibility Study Investigation Report for the Redwing Carriers Site.
- 0065- 12. Memorandum from Wen-Whai Li, EPA Region IV, to Ken Lucas, EPA Region IV (June 18, 1992). Concerning calculation of the Peclet number for the Remedial Investigation/Feasibility Study Draft Remedial Investigation Report.
- 0071- 13. Letter from Gary Felkner, B&V Waste Science and Technology Corp., to Ken Lucas, EPA Region IV. (June 23, 1992). Concerning the attached Technical Review Comments for Section 4 of the Draft Final Remedial Investigation Report.
- 0078- 14. "Redwing Carriers, Inc., Saraland Apartments Site, Alabama, Remedial Investigation /Feasibility Study, Remedial Investigation Report, Volume I," The WCM Group, Inc. (July 1992).
- VOL. 7 0484- 15. "Redwing Carriers, Inc., Saraland Apartments Site, Alabama, Remedial Investigation /Feasibility Study, Remedial Investigation Report, Volume II," The WCM Group, Inc. (July 1992).
- VOL. 8 1188 16. "Redwing Carriers, Inc., Saraland Apartments Site, Alabama, Remedial Investigation /Feasibility Study, Remedial Investigation Report, Volume III," The WCM Group, Inc. (July 1992).
- 1669- 17. Letter from Gary Felkner, B&V Waste Science and Technology Corp., to Ken Lucas, EPA Region IV. (July 7, 1992). Concerning the attached Technical Review Comments for Section 4, 5, 7, and Appendix IX of the Draft Final Remedial Investigation Report.
- 1674- 18. Letter from Michael Orrick WCM Group, Inc., to Ken Lucas, EPA Region IV. (July 14, 1992). Concerning transmittal of the Final RI Report, Draft FS Report, Draft Treatability Study Report, and enclosed Responses to EPA comments on the RI.

3.11 Health Assessments

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0001 1. "Preliminary Health Assessment for Redwing Carriers, Inc. - (Saraland) - Saraland, Alabama," Agency for Toxic Substances and Disease Registry (ATSDR) (July 18, 1990).

3.11 Health Assessments (cont'd.)

- 0022- 2. Memorandum from Chuck Pietrosewicz, Department of Health and Human Services, to Kenneth A. Lucas, EPA Region IV (August 26, 1991). Concerning review of the Phase II Sampling and Analysis Plan and the revised Preliminary Site Characterization summary reports dated July 1991.

3.12 Endangerment Assessments

- 0025- 1. "Redwing Carriers, Inc., Saraland Apartments Site, Alabama, Technical Memorandum Indicator Chemicals and Hazardous Substances," Environ Corporation. (September 11, 1991).
- 0351- 2. "Redwing Carriers, Inc., Saraland Apartments Site, Alabama, Technical Memorandum Exposure Assessment," Environ Corporation. (September 11, 1991).
- 0496- 3. "Redwing Carriers, Inc., Saraland Apartments Site, Alabama, Technical Memorandum Environmental Evaluation," Environ Corporation. (September 11, 1991).
- 0547- 4. Letter from Earnest Mancini, Geologic Survey of Alabama, to Kenneth A. Lucas, EPA Region IV. (September 23, 1991). Concerning Comments on the Risk Assessment Technical Memoranda for Redwing Carriers, Inc.-Saraland Apartment Site.
- 0549- 5. Memorandum from Glenn Adams, EPA Region IV, to Ken Lucas, EPA Region IV. (October 3, 1991). Concerning comments on the Technical Memorandum for the Baseline Risk Assessment, Redwing Carriers Site.
- 0554- 6. Memorandum from Glenn Adams, EPA Region IV, to Ken Lucas, EPA Region IV. (October 10, 1991). Concerning follow-up comments to the meeting with PRPs, the Redwing Carriers Site.
- 0557- 7. Letter from Kenneth A. Lucas, EPA Region IV, to Michael W. Orrick, WCM Group, Inc. (October 21, 1991). Concerning comments on the Revised Preliminary Site Characterization Summary Report and the three Risk Assessment Technical Memoranda.

3.12 Endangerment Assessments (cont'd.)

- 0569-8. Letter from Beverly Wilson Shimada, Environ Corporation, to Kenneth A. Lucas, EPA Region IV. (October 24, 1991). Concerning follow up comments to the October 8-9 meeting with EPA Region IV about the Risk Assessment Documents.
- 0575 9. Memorandum from Craig Mann, Environmental Quality Management, Inc., to Lee Page, Environmental Quality Management, Inc. (October 31, 1991). Concerning a request by EPA Region IV to review the Exposure Assessment Memorandum for Saraland Superfund site, and including comments on the Air Pathway exposure procedures and methodologies proposed by Environ, Inc., authors of the Memornadum.
- 0586-10. Letter from Beverly Wilson Shimada, Environ Corp., to Kenneth Lucas, EPA Region IV. (November 4, 1991). Concerning EPA Region IV's denial of an extension on submittal of the Baseline Risk Assessment and asking EPA Region IV to reconsider.
- 0590-11. Letter from Kenneth A. Lucas, EPA Region IV, to Michael W. Orrick, WCM Group. (November 7, 1991). Concerning denial of Environ's November 4 request for an extension on submittal of the Baseline Risk Assessment.
- 0592-12. Memorandum from Joan J. Dupont, EPA Region IV, to Ken Lucas, EPA Region IV. (November 8, 1991). Concerning comments on Technical Memoranda on Indicator Chemicals and Hazardous Substances, Exposure Assessment and Environmental Evaluation, Redwing Carriers, Inc.-Saraland Apartments.
- 0596-13. Memorandum from Kenneth A. Lucas, EPA Region IV, to Adressees. (November 22, 1991). Concerning a request for comments on the draft Baseline Risk Assessment and the dPhase 2 sampling Report for the Redwing Carriers, Inc.-Saraland Apartments Site.
- 0598-14. Letter from Michael Scott and Beverly Shimada, Environ Corp., to Michael Orrick, WCM Group. (November 23, 1991). Concerning transmittal of 20 copies of the draft Baseline Risk Assessment to be distributed to EPA Region IV and the State of Alabama for review.

3.12 Endangerment Assessments (cont'd.)

- 0601- 15. Letter from Michael W. Orrick, WCM Group, Inc., to Kenneth A. Lucas, EPA Region IV. (November 25, 1991). Concerning transmittal of the draft Baseline Risk Assessment for review.
- 0603- 16. Letter from Beverly Wilson Shimada, Environ Corp., to Kenneth A. Lucas, EPA Region IV. (November 27, 1991). Concerning Environ's intention to respond to EPA Region IV's comments on the Risk Assessment Technical Memoranda.
- 0605- 17. Letter from Chuck Pietrosewicz, Agency for Toxic Substances and Disease Registry (ATSDR), to Kenneth Lucas, EPA Region IV. (December 2, 1991). Concerning ATSDR's roll in reviewing risk assessments.
- 0607- 18. Letter from Beverly Wilson Shimada, Environ Corp., to Michael Orrick, WCM Group. (December 6, 1991). Concerning the transmittal of the enclosed responses to EPA's comments on the Risk Assessment Technical Memoranda.
- 0618- 19. Letter from Michael W. Orrick, WCM Group, Inc., to Ken Lucas, EPA Region IV. (December 13, 1991). Concerning transmittal of the attached response to EPA's comments on the Risk Assessment Memoranda.
- 0624- 20. Letter from Jan Hunnicutt, B & V Waste Science and Technology Corp., to Ken Lucas, EPA Region IV (December 16, 1991). Concerning transmittal of a diskette and the attached hard copy containing the Technical Review Comments for the RI/FS PSCS Phase II and Draft Baseline Risk Assessment.
- 0642- 21. Memorandum from Winston A. Smith, EPA Region IV, to Donald J. Guinyard, EPA Region IV (January 14, 1992). Concerning review of the Draft Baseline Risk Assessment and Phase II Sampling Report for the Redwing Carriers Site.
- 0645- 22. Memorandum from Ken Lucas, EPA Region IV, to File. (January 21, 1992). Concerning a conference call between Redwing Carriers representatives and EPA representatives at which Ground Water Classification in the draft Baseline Risk Assessment was discussed.

3.12 Endangerment Assessments (cont'd.)

- 0648-23. Letter from Beverly Wilson Shimada, Environ Corp., to Ken Lucas, EPA Region IV. (April 15, 1992). Concerning transmittal of the Final Baseline Risk Assessment for Redwing Carriers-Saraland Apartments Site.
- 0650-24. Memorandum from Glenn Adams, EPA Region IV, to Ken Lucas, EPA Region IV. (May 19, 1992). Concerning comments to the third draft Baseline Risk Assessment.
- 0653-25. Letter from Karyn Hentz, Environ Corp., to Ken Lucas, EPA Region IV. (July 7, 1992). Concerning a review of risk assessment calculations in the Saraland Baseline Risk Assessment.
- 0655-26. Letter from Karyn Hentz, Environ Corp., to Ken Lucas, EPA Region IV. (July 10, 1992). Concerning a minor mistake in the estimation of risk for the Saraland Baseline Risk Assessment.

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4.0 FEASIBILITY STUDY (FS)

4.2 Sampling and Analysis Data

1. Cross-Reference: "Redwing Carriers, Inc.-Saraland Apartments Site, Alabama - Remedial Investigation/ Feasibility Study - Sampling and Analysis Plan," WCM Group, Inc. (November 1990). [Filed and cited as entry number 2 in 3.2 REMEDIAL INVESTIGATION (RI) - Sampling and Analysis Data]
2. Cross-Reference: "Redwing Carriers, Inc.-Saraland Apartments Site, Alabama - Remedial Investigation/ Feasibility Study - Field Sampling Plan," WCM Group, Inc. (November 1990). [Filed and cited as entry number 3 in 3.2 REMEDIAL INVESTIGATION (RI) - Sampling and Analysis Data]

4.4 Work Plans and Progress Reports

- 0677- 1. Memorandum from Ken Lucas, EPA Region IV, to Joan Mattox, EPA Region IV (September 17, 1991). A request for comments on the Treatability Study Work Plans for the Redwing Carriers Site.

4.4 Work Plans and Progress Reports (cont'd.)

- 0679- 2. Memorandum from Ken Lucas, EPA Region IV, to Bill Bokey, Wade Knight, Bernie Hayes and Van Shrives (September 17, 1991). Concerning review of the Treatability Study Work Plan for the Redwing Carriers Site.
- 0681- 3. Fax from Joan Mattox, EPA Region IV, to Ken Lucas, EPA Region IV of a memorandum from Steven I. Safferman, EPA Region IV, to Joan Mattox, EPA Region IV (October 4, 1991). Concerning technical review of the Treatability Study Work Plan for the Redwing Carriers Site.
- 0685- 4. Memorandum from Kay Wischkaemper, EPA Region IV, to Ken Lucas, EPA Region IV (October 8, 1991). Concerning comments on the Treatability Study Work Plan and Exposure Assessment Technical Memorandum for the Redwing Carriers Site.
- 0688 5. Memorandum from Winston A. Smith, EPA Region IV, to Donald J. Guinyard, EPA Region IV (October 9, 1991). Concerning review of the Treatability Study Work Plan for the Redwing Carriers Site.
- 0691- 6. Memorandum from Fred Sloan, EPA Region IV, to Ken Lucas, EPA Region IV (October 24, 1991). Concerning review of the Treatability Study Work Plan for the Redwing Carriers Site.
- 0694- 7. Letter from Ken Lucas, EPA Region IV, to Michael W. Orrick, WCM Group, Inc. (October 24, 1991). Transmitting EPAs comments on and disapproval of the Treatability Study Work Plan.
- 0701- 8. Fax from Michael W. Orrick, WCM Group, Inc., to Ken Lucas, EPA Region IV, of an October 24, 1991, letter from Michael W. Orrick, WCM Group, Inc., to Ken Lucas, EPA Region IV (October 25, 1991). A request to change the due date for the Remedial Investigation/Feasibility Study for the Redwing Carriers Site from October 26, 1991, to November 22, 1991.
- 0706- 9. "Redwing Carrier, Inc., Saraland Apartments Site, Remedial Investigation/Feasibility Study, Revised Treatability Study Work Plan," The WCM Group, Inc. (November 1991).

4.4 Work Plans and Progress Reports (cont'd.)

- 0768- 10. Letter from Michael W. Orrick, WCM Group, Inc., to Ken Lucas, EPA Region IV (November 25, 1991). Transmitting responses to EPAs comments on the Treatability Study Work Plan and a proposed schedule for Remedial Investigation/Feasibility Study activities.
- 0778- 11. Letter from Michael W. Orrick, WCM Group, Inc., to Ken Lucas, EPA Region IV (November 28, 1991). Concerning the revised Treatability Study Work Plan for the Redwing Carriers Site.
- 0781- 12. Memorandum from Ken Lucas, EPA Region IV, to Bernie Hayes, Wade Knight, Bill Bokey, Ban Shrieves and John Risher (December 10, 1991). Concerning the Revised Treatability Study Work Plan for the Redwing Carriers Site.
- 0784- 13. Letter from Michael W. Orrick, WCM Group, Inc., to Ken Lucas, EPA Region IV (December 16, 1991). Concerning references for the Revised Treatability Study Work Plan for the Redwing Carriers Site.
- 0791- 14. Fax from Ken Lucas, EPA Region IV, to Michael W. Orrick, WCM Group, Inc. (December 24, 1991). Transmitting EPAs approval of the Treatability Study Work Plan and Phase II Field Sampling and Analysis Plan for the Redwing Carriers Site.
- 0800- 15. Memorandum from Steven I. Safferman, EPA Region IV, to Joan Mattox, EPA Region IV (January 28, 1992). Concerning the technical review of the Treatability Study Work Plan for the Redwing Carriers Site.
- 0802- 16. Letter from Michael W. Orrick, WCM Group, Inc. to Ken Lucas, EPA Region IV. (March 20, 1992). Concerning transmittal of the enclosed Treatability Study Preliminary Progress Report for the Redwing Carriers, Inc., Saraland Superfund Site.
- 0827- 17. Letter from Michael Orrick, WCM Group, Inc., to Ken Lucas, EPA Region IV, transmitting the Monthly Report for May, 1992. (June 16, 1992).
- 0830- 18. Letter from Michael Orrick, WCM Group, Inc., to Ken Lucas, EPA Region IV, transmitting the Monthly Report for June, 1992. (July 15, 1992).

4.4 Work Plans and Progress Reports (cont'd.)

- 0833 - 19. Letter from Michael Orrick, WCM Group, Inc., to Ken Lucas, EPA Region IV, transmitting the Monthly Report for July, 1992. (August 17, 1992).

4.7 Applicable or Relevant and Appropriate Requirements (ARARS)

1. Cross-Reference: Letter from Michael W. Orrick, WCM Group, Inc., to Kenneth A. Lucas, EPA Region IV (August 21, 1990). Concerning preliminary identification of Applicable or Relevant and Appropriate Requirements (ARARS). [Filed and cited as entry number 1 in 3.7 REMEDIAL INVESTIGATION (RI) - Applicable or Relevant and Appropriate Requirements (ARARS)]
- 0839 2. Letter from Joseph Downey, Alabama Department of Environmental Management, to Ken Lucas, EPA Region IV. (July 15, 1992). Concerning ARARS for the Redwing Carriers Site.
- 0842 3. Letter from Joseph Downey, Alabama Department of Environmental Management, to Ken Lucas, EPA Region IV. (October 1, 1992). Concerning ARARS for the Redwing Carriers Site.

4.8 Interim Deliverables

1. Cross-Reference: "Redwing Carriers, Inc.-Saraland Apartments Site, Alabama - Remedial Investigation/ Feasibility Study - Quality Assurance Project Plan," WCM Group, Inc. (November 1990). [Filed and cited as entry number 2 in 3.8 REMEDIAL INVESTIGATION (RI) - Interim Deliverables]
2. Cross-Reference: "Redwing Carriers, Inc.-Saraland Apartments Site, Alabama - Remedial Investigation/ Feasibility Study - Health and Safety Plan," WCM Group, Inc. (November 1990). [Filed and cited as entry number 3 in 3.8 REMEDIAL INVESTIGATION (RI) - Interim Deliverables]
3. Cross-Reference: "Redwing Carrier, Inc. -Saraland Apartments Site, Alabama - Remedial Investigation/ Feasibility Study, Emergency Response Plan, WCM Group, Inc. (November 1990). [Filed and cited as entry number 4 in 3.8 REMEDIAL INVESTIGATION (RI) - Interim Deliverables]

4.8 Interim Deliverables (cont'd.)

- 0851- 4. Letter from Ken Lucas, EPA Region IV, to Michael W. Orrick, WCM Group, Inc. (September 24, 1991). Concerning disapproval of the Proposed Remedial Action Objectives Technical Memorandum and the transmittal of EPA's attached comments.
- 0857- 5. "Technical Memorandum, Remedial Technology Alternatives Screening," WCM Group, Inc. (October 1991).
- 0988- 6. Letter from Michael W. Orrick, WCM Group, Inc. to Ken Lucas, EPA Region IV (October 22, 1991). Concerning the enclosed revised Remedial Action Objectives.
- 0995- 7. Memorandum from John E. Brugger, EPA, to Ken Lucas, EPA Region IV. (October 22, 1991). Concerning general comments on the Treatability Studies at Redwing Carriers-Saraland Apartments Superfund Site.
- 0999- 8. Letter from Michael W. Orrick, WCM Group, Inc. to Ken Lucas, EPA Region IV. (October 29, 1991). Concerning transmittal of the Remedial Technologies Alternatives Screening Technical Memorandum.
- 1002- 9. "Technical Memorandum, Proposed Remedial Action Objectives for the Redwing Carriers, Inc., Saraland Apartment Site," WCM Group, Inc. (November 6, 1991).
- 1028- 10. Letter from Michael W. Orrick, WCM Group, Inc. to Ken Lucas, EPA Region IV. (November 6, 1991). Concerning a revision to the Proposed Remedial Action Objectives Technical Memorandum.
- 1032- 11. Memorandum from Kay Wischkaemper, EPA Region IV to Ken Lucas, EPA Region IV. (November 12, 1991). Concerning review of responses to EPA's Comments on the Proposed Remedial Action Objectives Technical Memorandum.
- 1035- 12. Letter from Michael W. Orrick, WCM Group, Inc. to Ken Lucas, EPA Region IV. (November 13, 1991). Concerning transmittal of revised copies of the Proposed Remedial Action Objectives Technical Memorandum.
- 1037- 13. Memorandum from Winston A. Smith, EPA Region IV, to Donald J. Guinyard. (November 21, 1991). Concerning comments to the Remedial Technology Alternative Screening Technical Memorandum for Redwing Carriers, Saraland Apartments Site.

4.8 Interim Deliverables (cont'd.)

- 1039 14. Memorandum from Kay Wischkaemper, EPA Region IV to Ken Lucas, EPA Region IV. (November 25, 1991). Concerning Comments on the Remedial Technology Alternatives Screening Memorandum for Redwing Carriers, Inc.
- 1041- 15. Letter from Ken Lucas, EPA Region IV to Michael W. Orrick, WCM Group, Inc. (December 9, 1991). Concerning comments on the Remedial Technology Alternatives Screening Technical Memorandum.
- 1046- 16. Letter from Michael W. Orrick, WCM Group, Inc., to Ken Lucas, EPA Region IV. (May 8, 1992). Concerning Information on the ground water classification at the Redwing Carriers, Inc. Saraland Apartment Site.
- 1079- 17. Memorandum from Ken Lucas, EPA Region IV, to Joan Maddox, Risk Reduction Engineering Lab (August 4, 1992). Concerning Bench Scale Biotechnical Study, and Soil Flushing Treatability Study Reports for review.
- 1081 18. Memorandum from John Brugger, EPA Superfund Technology Demonstration Division, to Joan Mattox, EPA Superfund Technology Demonstration Division. (August 18, 1992). Concerning review of the Draft Soil Treatability Study for the Redwing Carriers/Saraland Site.
- 1096- 19. Memorandum from Steven Safferman, EPA Office of Research and Development, to Joan Mattox, EPA Superfund Technology Demonstration Division. (August 20, 1992). Concerning review of the Bench-Scale Biotreatability Study for the Redwing Carriers/Saraland Site.

4.9 Feasibility Study (FS) Reports

- VOL. 11
1. Cross-Reference: Memorandum from Ken Lucas, EPA Region IV, to File. (January 21, 1992). Concerning a conference call between Redwing Carriers representatives and EPA representatives at which Ground Water Classification in the draft Baseline Risk Assessment was discussed. [Filed and cited as entry number 22 in 3.12 REMEDIAL INVESTIGATION (RI) - Endangerment Assessments]
- 1110- 2. Memorandum from Steve Hall, EPA Region IV, to Ken Lucas, EPA Region IV. (April 10, 1992). Concerning Comments to the draft Feasibility Study Report, Redwing Carriers NPL Site.

4.9 Feasibility Study (FS) Reports (cont'd.)

- 1112- 3. Letter from W. Jan Hunnicutt, B & V Waste Science and Technology Corp., to Ken Lucas, EPA Region IV. (April 10, 1992). Concerning Technical Review Comments on the draft Feasibility Study, Redwing Carriers-Saraland Apartments Site.
- 1131- 4. Memorandum from Glenn Adams, EPA Region IV, to Ken Lucas, EPA Region IV. (April 20, 1992). Concerning comments to the draft Feasibility Study.
- 1135- 5. Memorandum from Winston A. Smith, EPA Region IV, to Joseph R. Franzmathes, EPA Region IV. (April 24, 1992). Concerning comments to the draft Feasibility Study.
- 1137- 6. Letter from Ken Lucas, EPA Region IV, to Michael W. Orrick, WCM Group, Inc. (April 24, 1992). Concerning transmittal of EPA's enclosed comments on the draft Feasibility Study.
- 1157- 7. "Draft Feasibility Study, Redwing Carriers, Inc., Saraland Apartments Site, Alabama," WCM Group, Inc. (July 1992).
- 1354- 8. Letter from W. Jan Hunnicutt, B&V Waste Science and Technology Corp., to Ken Lucas, EPA Region IV. (July 15, 1992). Concerning Technical Review Comments on the draft Feasibility Study, Redwing Carriers-Saraland Apartments Site.
- 1361- 9. Letter from W. Jan Hunnicutt, B&V Waste Science and Technology Corp., to Ken Lucas, EPA Region IV. (July 15, 1992). Concerning Revised Technical Review Comments on the draft Feasibility Study, Redwing Carriers-Saraland Apartments Site.
- 1373- 10. Memorandum from Douglas Mundrick, EPA Region IV, to Beverly Houston, EPA Region IV requesting review of, and comments on issues surrounding ground water classification at the Redwing Carriers, Inc., Saraland Site. (August 20, 1992).
- 1376 11. Memorandum from Kay Wischkaemper, EPA Region IV, to Ken Lucas, EPA Region IV. (August 26, 1992). Comments on the May 8 letter from WCM Group concerning the ground water classification at the Redwing Carriers/Saraland Site.

4.9 Feasibility Study (FS) Reports (cont'd.)

- 1382- 12. Facsimile transmission from Gary Ramey, WCM Group, Inc., to Ken Lucas, EPA Region IV. (September 8, 1992). Concerning calculations for the observed soil:water partitioning ratios for lead at the Redwing Carriers/Saraland Site.
- 1385- 13. Letter from Michael Orrick, WCM Group, Inc., to Ken Lucas, EPA Region IV. (September 14, 1992). Concerning new partition coefficient calculations, Redwing Carriers/Saraland Site.
- 1394- 14. Memorandum from Kay Wischkaemper, EPA Region IV, to Ken Lucas, EPA Region IV. (September 15, 1992). Concerning determination of the soil clean-up level for lead at the Redwing Carrier/Saraland.
- 1397- 15. Memorandum from Kay Wischkaemper, EPA Region IV, to Ken Lucas, EPA Region IV. (September 18, 1992). Concerning comments on the letter received from WCM on 9/15/92, concerning soil clean-up levels at the Redwing Carrier/Saraland Site.
- 1402 16. Letter from Ken Lucas, EPA Region IV, to File documenting discussions with ADEM regarding the off-site disposal option for the source material the the Redwing Site. (November 9, 1992).

4.10 Proposed Plans for Selected Remedial Action

- VOL. 12 1411 1. Letter from Waynon Johnson, John A. Lindsay, National Oceanic and Atmospheric Administration (NOAA), to Ken Lucas, EPA Region IV. (July 23, 1992). Concerning comments on the Proposed Plan for the Redwing Carriers/Saraland Site.
- 1413- 2. Letter from Joseph Downey, State of Alabama Department of Environmental Management, to Ken Lucas, EPA Region IV. (July 24, 1992). Concerning a need for more time for the review of documents for the Redwing Carrier/Saraland Site.
- 1415- 3. "United States Environmental Protection Agency, Superfund Proposed Plan Fact Sheet, Redwing Carriers, Saraland Apartments Site." (August 1992).
- 1423- 4. Comment from Danny Phillips, Public Citizen, on the Proposed Plan at the Redwing Carriers/Saraland Site. (August 7, 1992).

4.10 Proposed Plans for Selected Remedial Action
(cont'd.)

- 1425- 5. Comment from Collette King, Environmental Relay Station requesting an extension of the Public Comment Period on the Proposed Plan at the Redwing Carriers/Saraland Site. (August 19, 1992).
- 1427- 6. Letter from David McKay, Beveridge & Diamond, to Betty Winter, EPA Region IV, requesting an extension of the Public Comment Period on the Proposed Plan at the Redwing Carriers/Saraland Site. (August 24, 1992).
- 1429- 7. Comment from Jack Bryan, Public Citizen, on the Proposed Plan at the Redwing Carriers/Saraland Site. (September 3, 1992).
- 1433- 8. Comment from Agnes Spratley, Public Citizen, on the Proposed Plan at the Redwing Carriers/Saraland Site. (September 15, 1992).
- 1435- 9. Letter from Joseph Downey, State of Alabama Department of Environmental Management, to Ken Lucas, EPA Region IV. (September 22, 1992). Concerning a review of the RI/FS; Treatability Studies; Proposed Plan.
- 1447- 10. Letter from Daniel Berry, Ropes & Gray, to Ken Lucas, EPA Region IV transmitting Redwing Carrier Inc.'s comments on the Proposed Plan for the Redwing Carriers/Saraland Site. (September 29, 1992).
- 1450 11. "Comments on EPAs Proposed Plan for the Redwing Carriers-Saraland Apartments Superfund Site," Prepared by Daniel Berry, Ropes & Grey, for Redwing Carriers, Inc. (September 29, 1992).

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5.0 RECORD OF DECISION (ROD)

5.9 Record of Decision (ROD)

- 0001- 1. Letter from Ken Lucas, EPA Region IV, to Joseph Downey, State of Alabama Department of Environmental Management, requesting a review of the Draft Record of Decision. (September 2, 1992).
- 0003 2. "Record of Decision, Redwing Carriers, Inc. (Saraland)," EPA Region IV. (December 15, 1992).

9.0 STATE COORDINATION

9.1 Correspondence (cont'd.)

0120- 1. Letter from Kenneth A. Lucas, EPA Region IV, to Joe Downy, Alabama Department of Environmental Management (May 30, 1991). Concerning State of Alabama's review of the Preliminary Site Characterization Summary and the Phase II Sampling Plan.

0123- 2. Letter from Ernest A. Mancini, Alabama Geological Survey, to Kenneth A. Lucas, EPA Region IV (June 10, 1991). Concerning State of Alabama's review of the Preliminary Site Characterization Summary (Phase I) and the Phase II Proposed Field Sampling Plan for the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.

10.0 ENFORCEMENT

10.11 EPA Administrative Orders

0128- 1. Consent Order, In the Matter of Redwing Carriers, Inc. Saraland Alabama Site, Redwing Carriers, Inc., Respondent, Docket No. 90-53-C (July 2, 1990).

0187- 2. Letter from Michael W. Orrick, WCM Group, Inc., to Kenneth A. Lucas, EPA Region IV (August 3, 1990). Concerning Claim of Force Majeure at the Redwing Carriers, Inc./Saraland Site in Saraland, Alabama.

0190- 3. Letter from Michael W. Orrick, WCM Group, Inc., to Kenneth A. Lucas and Elaine G. Levine, EPA Region IV (August 17, 1990). Concerning RI/FS Schedule and request for an extension for completion of the Remedial Investigation/Feasibility Study Work Plan for the Redwing Carriers, Inc./Saraland Site in Saraland, Alabama.

0193 4. Letter from Kenneth A. Lucas, EPA Region IV, to Michael W. Orrick, WCM Group, Inc. (September 5, 1990). Concerning request for extension of RI/FS schedule and proposed amendment to the Administrative Order by Consent (AOC).

10.0 ENFORCEMENT

10.11 EPA Administrative Orders (cont'd.)

- 0199- 5. Administrative Order, In the Matter of Redwing Carriers Superfund Site, Saraland, Alabama, Saraland Apartments, LTD., Robert S. Coit and The Roar Company, Respondents, Docket No. 91-05-C (November 7, 1990). Concerning the final Administrative Order for the Redwing Carriers, Inc./Saraland Site in Saraland, Alabama.
- 0215- 6. Letter by Fax from Ken Lucas, EPA Region IV to Michael W. Orrick, WCM Group, Inc. (November 5, 1991). Concerning notification of the violation of the Administrative Order by Consent by Redwing Carriers, Inc.
- 0219- 7. Letter by Fax from J. Daniel Berry, for Redwing Carriers Inc., to Ken Lucas and Elaine Levine, EPA Region IV. (November 6, 1991). Concerning a request to waiver any stipulated penalties related to alledged violations of the Administrative Order by Consent.
- 0222- 8. Letter by Fax from Ken Lucas, EPA Region IV to Michael W. Orrick, WCM Group, Inc. (November 15, 1991). Concerning a demand of payment of stipulated penalties.
- 0225- 9. Letter from J. Daniel Berry for Redwing Carriers, Inc., to Ken Lucas and Elaine Levine, EPA Region IV. (November 18, 1991). Concerning Redwings Carrier's objection to EPA's November 5 determination that Redwing violated the Administration Order by Consent.
- 0229- 10. Letter with attachments from J. Daniel Berry for Redwing Carrier, Inc., to Donald J. Guinyard, EPA Region IV. (December 4, 1991). Concerning invocation of the dispute resolution provision of the Administrative Order by Consent.
- 0305- 11. Letter from Donald J. Guinyard, EPA Region IV, to Michael W. Orrick, WCM Group, Inc. (January 13, 1992). Concerning the outcome of the dispute resolution of the invoked in J. Daniel Berry's December 4, 1991 letter.

11.0 POTENTIALLY RESPONSIBLE PARTIES (PRP)

11.9 PRP-Specific Correspondence (cont'd.)

- 0310 - 1. Letter from David Fulkerson, Redwing Carriers Inc., to Andrea Madigan, EPA Region IV, transmitting Redwing Carriers, Inc.'s response to Request for Information pursuant to Section 104 of CERCLA and Section 3007 of RCRA. (July 31, 1992).

13.0 COMMUNITY RELATIONS

13.1 Correspondence

- 0391 - 1. Letter from Gary Marcum, Marcum Managment Company, to Residents of Saraland Apartments (September 20, 1990). Concerning EPA Region IV desire to conduct interviews at the Saraland Apartments in Saraland, Alabama.
- 0393 - 2. Letter from Ogletree, Deakins, Nash, Smoak and Stewart (Attorney for Potentially Responsible Party, Robert S. Coit), to Elaine Levine, EPA Region IV (September 21, 1990). Concerning EPA Region IV proposed community relations activities to the Redwing Carriers, Inc./ Saraland Site in Saraland, Alabama.

13.6 Community Relations Plans

- 0397 - 1. Memorandum from Betty Winter, EPA Region IV to Kenneth A. Lucas, EPA Region IV (December 4, 1990). Concerning review of the draft Community Relations Plan (CRP).
- 0405 - 2. Letter from Joe H. Brown, WCM Group, Inc., to Betty Winter, EPA Region IV (December 7, 1990). Concerning review of the draft Community Relations Plan (CRP).
- 0409 - 3. "Final Community Relations Plan, Redwing Carriers/ Saraland Apartments Superfund Site, Saraland, Mobile County, Alabama, EPA Region IV. (January 1991).

13.7 News Clippings and Press Releases

- 0438 - 1. "Agreement Reached To Study Contamination at Redwing Carriers, Inc. Superfund Site, Saraland Alabama," ENVIRONMENTAL NEWS, EPA Region IV (July 5, 1990).
- 0441 - 2. "Cost of Saraland 'ooze' Cleanup put at \$6 million," Newspaper Article, Mobile Press Register. (August 12, 1992).

13.7 News Clippings and Press Releases (cont'd.)

- 0444- 3. "EPA Extends Public Comment Period for Proposed Saraland Superfund Cleanup," Press Release, EPA Region IV (August 26, 1992).

13.8 Public Meetings

- 0447- 1. "Public Meeting - December 17, 1990 - The United States Environmental Protection Agency Announces the Initiation of the Remedial Investigation/Feasibility Study at the Redwing Carriers, Inc./Saraland Apartments Site - Saraland, Alabama," (December 17, 1990).
- 0449- 2. "EPA Availability Session - Redwing Carriers/Saraland Apartments Superfund Site - Saraland, Mobile County, Alabama," EPA Region IV (August 13, 1991). Announcement from Community Relations Coordinator, EPA Region IV informing concerned citizens and interested parties of meeting with EPA officials regarding the Redwing Carriers/Saraland Apartments NPL Site in Saraland, Alabama.
- 0452- 3. "Before the Environmental Protection Agency, Saraland Alabama," Public Meeting Transcript, Charles Howard & Associates. (August 11, 1992). Concerning a Public Meeting held to discuss EPA's Proposed Plan for the Redwing Carriers/Saraland Site.

13.9 Fact Sheets

- 0573- 1. "Fact Sheet-Redwing Carriers, Inc. Superfund Site - Saraland, Mobile County, Alabama," EPA Region IV (November 1990).

16.0 NATURAL RESOURCE TRUSTEE

16.1 Correspondence

- 0582- 1. Letter from Douglas F. Mundrick, EPA Region IV, to John A. Lindsay, National Oceanic Atmospheric Administration (NOAA) (March 21, 1990). Concerning the documented release or threatened release of hazardous substances at the Redwing Carriers, Inc./Saraland Site in Saraland, Alabama.

16.0 NATURAL RESOURCE TRUSTEE

16.1 Correspondence (cont'd.)

- 0586 - 2. Memorandum from John A. Lindsay, National Oceanic Atmospheric Administration (NOAA) (April 6, 1990). Concerning NOAA's review of the Redwing Carriers, Inc./ Saraland Site in Saraland, Alabama.
- 0594 - 3. Letter from Arthur L. Collins, EPA Region IV, to Bennett L. Bearden, Geological Survey of Alabama (October 12, 1990). Concerning the Natural Resources Trustee status of the Geological Survey of Alabama.
- 0599 - 4. Letter from Ken Lucas, EPA Region IV, to Ernest Mancini, Alabama Oil and Gas Board. (August 3, 1992). Concerning upcoming negotiations with Redwing Carriers.
- 0601 - 5. Letter from Ken Lucas, EPA Region IV, to James Lee, US Department of Interior. (August 3, 1992). Concerning upcoming negotiations with Redwing Carriers.
- 0603 - 6. Letter from Ken Lucas, EPA Region IV, to Waynon Johnson, National Oceanic and Atmospheric Administration (August 4, 1992). Concerning completion of the Remedial Investigation, submission of draft Feasibility Study and comments on the Proposed Plan.
- 0605 - 7. Letter from James Lee, US Dept. of Interior, to Ken Lucas, EPA Region IV. (August 5, 1992). Concerning a response to EPS's letter dated 8/3/92.

17.0 SITE MANAGEMENT RECORDS

17.4 Site Audio-Visuals

- 0608 - 1. "Site Analysis - Redwing Carriers - Saraland Alabama," EPA Region IV (August 1990).

17.7 Reference Documents

- 0630 - 1. "Guidelines for Ground-Water Classification under the EPA Ground-Water Protection Strategy, Final Draft," US Environmental Protection Agency. (December 1986).
- 0647 - 2. "Guide for Conducting Treatability Studies Under CERCLA, Interim Final," USEPA (December 1989).

17.7 Reference Documents (cont'd.)

- 0654- 3. "OSWER Directive 9355.0-30, Role of the Baseline Risk Assessment in Superfund Remedy Selection Decisions," Don Clay, EPA. (April 22, 1991).
- 0665- 4. Memorandum from John E. Brugger to Ken Lucas, EPA Region IV (October 25, 1991). Concerning ultimate analysis of chemicals.
- 0668- 5. "A Guide to Principal Threat and Low Level Threat Wastes," US Environmental Protection Agency. (November 1992).